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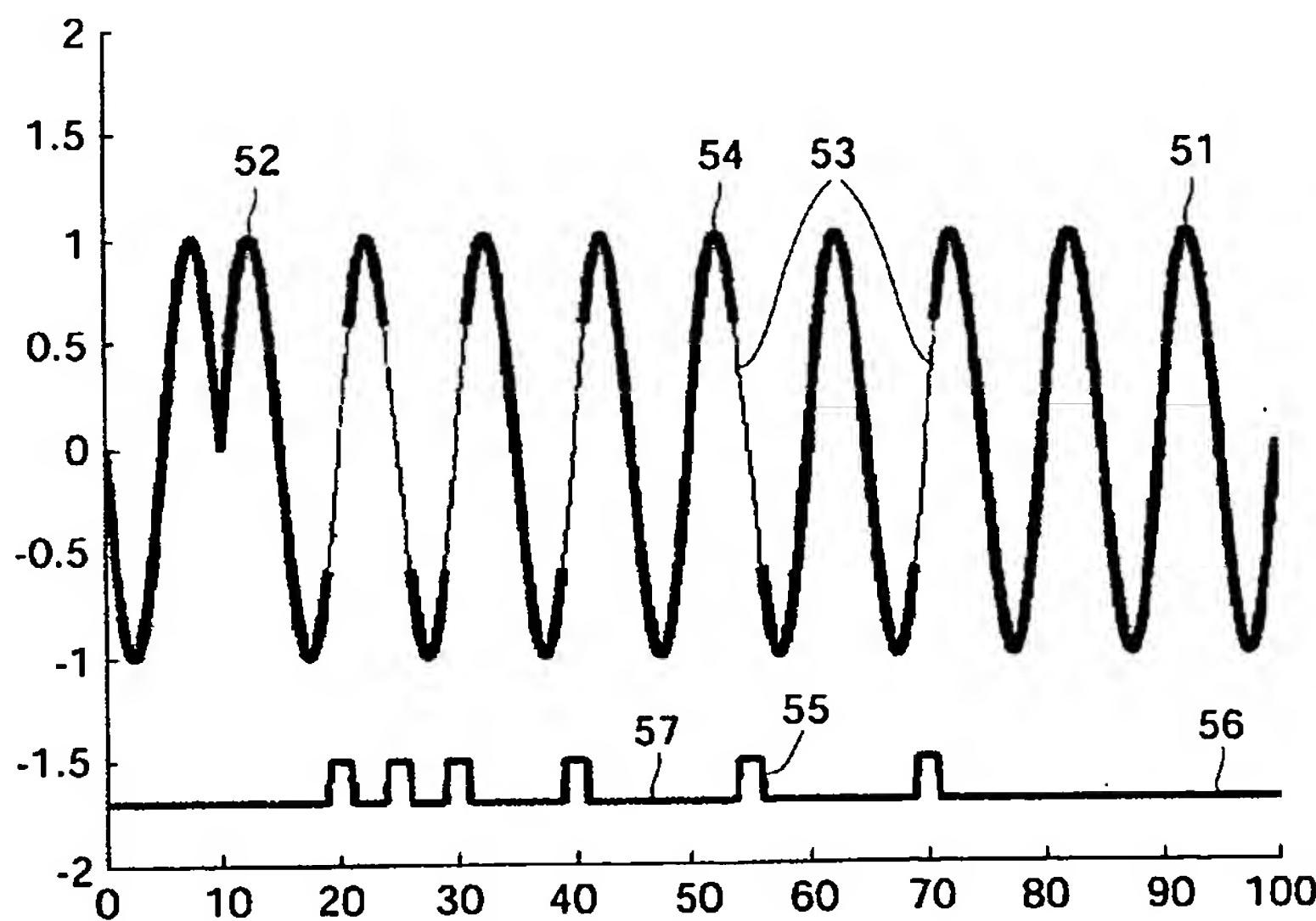
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[Continued on next page]

(54) Title: MULTILAYER OPTICAL DISC HAVING WOBBLE PITS



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(57) Abstract: A record carrier for recording information by writing marks in a track has a recording layer with a pre-groove (51). The pre-groove has a wobble that has wobble modulation (52) for representing control information. The pre-groove further has a pre-groove modulation constituted by pre-groove pit areas (54) having a predefined width and depth alternating with pre-groove land areas (53) having a reduced depth and/or width, in particular zero depth. A majority of the pre-groove land areas (53) is located at zero crossings of the wobble and a majority of the pre-groove pit areas is located at peak values of the wobble for optimizing the wobble signal strength. A scanning device has wobble detection means for retrieving the control information from the wobble modulation, and pre-groove demodulation means for retrieving the recording control information from the pre-groove modulation.



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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 366 564 A (DE HAAN MAARTEN R ET AL) 28 December 1982 (1982-12-28) the whole document	1-10
X	WO 99/13463 A (DEN ENDEN GIJSBERT JOSEPH VAN ; KONINKL PHILIPS ELECTRONICS NV (NL); P) 18 March 1999 (1999-03-18) the whole document	1-10
A	EP 1 276 101 A (MITSUBISHI CHEM CORP) 15 January 2003 (2003-01-15) the whole document	1-10

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Patent family members are listed in annex.

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